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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/032,525	12/27/2001	James G. Radzelovage	032831-002 5244		
7590 12/03/2003			EXAMINER		
Michael G. Say		NGUYEN, TUYEN T			
P.O. Box 1404	IE, SWECKER & MATH	ART UNIT	PAPER NUMBER		
Alexandria, VA 22313-1404			2832		
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ition No.	Applicant(s)				
		10/032,	,525	RADZELOVAGE, JAMES G.				
	Office Action Summary	Examin	er	Art Unit				
			T NGUYEN	2832	NW			
Period fo	The MAILING DATE of this c mmun or Reply	ication appears n t	he cover sheet with the c	rrespondence ad	dress			
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD F. MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm of period for reply specified above is less than thirty (3 of period for reply is specified above, the maximum sta re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no nunication. 0) days, a reply within the satutory period will apply and will, by statute, cause the a	event, however, may a reply be tim tatutory minimum of thirty (30) days I will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
1)⊠	Responsive to communication(s) file	ed on <u>17 September</u>	<u>r 2003</u> .					
2a) <u></u> ☐	This action is FINAL . 2	b)⊠ This action is	non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-10 and 12-21 is/are pending in the application. 4a) Of the above claim(s) 4-10 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-3 and 12-21 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) accepted or loction to the drawing(s) the correction is requ) be held in abeyance. See uired if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CF	, ,			
Priority u	ınder 35 U.S.C. §§ 119 and 120							
* S 13) \[A si 3' a 14) \[A	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation of the attached detailed Office action acknowledgment is made of a claim for the certified copies. 7 CFR 1.78. 1 The translation of the foreign land acknowledgment is made of a claim for the certified copies.	documents have be documents have be of the priority docur nal Bureau (PCT R n for a list of the celor domestic priority d in the first sentence aguage provisional approach to the sentence of the celor domestic priority of the first sentence of the celor domestic priority	een received. een received in Application nents have been receive ule 17.2(a)). rtified copies not receive under 35 U.S.C. § 119(e) ce of the specification or application has been rec- under 35 U.S.C. §§ 120	on No d in this National d. e) (to a provisional in an Application eived. and/or 121 since	application) Data Sheet. a specific			
Attachmen	t(s) e of References Cited (PTO-892)		∆ □ lates to 2000	(DTO 440) December 1	-			
2) 🔲 Notic	e of References Cited (P1O-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449) P		4) Interview Summary 5) Notice of Informal P 6) Other: .					

DETAILED ACTION

Election/Restrictions

Claims 4-10 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as

being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every

feature of the invention specified in the claims. Therefore, the conductive trace on a printed

circuit board must be shown or the feature(s) canceled from the claim(s). No new matter should

be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office

action to avoid abandonment of the application. The objection to the drawings will not be held

in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

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Claims 1-3 and 12-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al. [JP 02-66910] in view of Kiesel et al. [US 4,623,865].

Noguchi et al. discloses a transformer [figure 1] comprising :

- a toroidal magnetic core having at least one winding [1] wound about the core thereby forming a wound core;
- additional single turn winding [2] of conductive material formed to at least partially enclose the wound core, wherein the single turn winding formed of two sheets of conductive metallic material.

Noguchi et al. discloses the instant claimed invention except for the addition winding formed of a single sheet of metallic material.

Kiesel et al. discloses a current transformer [figure 1] including a single turn winding formed of a single piece of conductive material [11].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a single piece one turn winding design of Kiesel et al. for the addition winding of Noguchi for the purpose of facilitating manufacturing.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to form the single turn winding from one single sheet of metallic material for the additional single turn winding of Noguchi et al. since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. *Howard v. Detroit Stove Works*, 150 U.S. 164 (1893).

Regarding claims 2 and 18, Noguchi et al. discloses the addition winding provides substantially uniform distribution of current around the core annulus.

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Regarding claims 12 and 20, Noguchi et al. discloses the additional winding substantially encloses the core and the first winding.

Regarding claims 15 and 21, Noguchi et al. inherently discloses terminal portions [4, 4a] of the additional winding adapted to be connected to traces/pads of a printed circuit board to complete the winding structure.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shelly [US 4,536,733]; Shifrin [US 3,123,787] and Anderson, Jr. [US 2,709,791].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T NGUYEN whose telephone number is 703-308-0821. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 703-308-7619. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TTN 11N

Tayen Nguyen